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L2	529	tree$2 and (search$3 same (best adj match$2))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/05/06 10:53
L3	679	(tree$2 or hierarch$3) and (search$3 same (best adj match$2))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/05/06 11:34
L4	178	3 and ((sav$3 or stor$3) with (field$1 or column$1))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/05/06 11:08
L5	43	4 and "707"/$.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/05/06 10:57
L6	266	3 and ((sav$3 or stor$3) with (table or hierarch$3) and (field$1 or column$1))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/05/06 11:35
L8	73	6 and "707"/$.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/05/06 11:10
L9	73	8 and value$1	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/05/06 11:16
L10	24	8 and (value$1 same (best adj match$3))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/05/06 11:47
L11	133	(search$3 with (best adj match$2)).ab.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/05/06 11:35
L12	12	11 and (((sav$3 or stor$3) with table) and (tree or hierarch$3) and (field$1 or column$1))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/05/06 11:45

L13	499	tree$2 and ((search$3 or retriev$3 or quer$3) near match$3).ti,ab,clm.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/05/06 11:40
L14	714	(tree$2 or hierarch$3) and ((search$3 or retriev$3 or quer$3) near match$3).ti,ab,clm.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/05/06 11:40
L15	7	sav$3 with "second tree"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/05/06 11:42
L16	11	11 and (((sav$3 or stor$3) with (second adjtable)) and (tree or hierarch$3) and (field$1 or column$1))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/05/06 11:46
L17	202	14 and (((sav$3 or stor$3) with (second adjtable)) and (tree or hierarch$3) and (field$1 or column$1))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/05/06 11:45
L18	2	"6678675"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/05/06 11:46
L19	17	17 and (value$1 same (best adj match$3))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/05/06 11:47
L20	98	17 and "707"/$.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/05/06 11:48
L24	6	3 and ((sav$3 or stor$3) same (second adj (table$1 or tree$1)))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/05/06 11:51
L25	1	20 and ((sav$3 or stor$3) with (second adj (table or tree)))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/05/06 11:51

L26	82	((sav$3 or stor$3) with "first tree") or ((sav$3 or stor$3) with "second tree")	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/05/06 11:53
L27	2374	((sav$3 or stor$3) with "first table") or ((sav$3 or stor$3) with "second table")	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/05/06 11:54
L28	2454	26 or 27	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/05/06 11:54
L29	2	3 and 28	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/05/06 11:54

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PR Newswire. New York: May 16, 1999. p. 1
Full text Abstract

3. **A scaleable technique for best-match retrieval of sequential information using metrics-guided search**
Wolff, J Gerard. **Journal of Information Science.** Amsterdam: 1994. Vol. 20, Iss. 1; p. 16 (13 pages)
Abstract

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Nigel Ford, David Miller, Nicola Moss. **Journal of the American Society for Information Science and Technology.** Hoboken: May 2005. Vol. 56, Iss. 7; p. 741 (16 pages)

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Analytical Chemistry. Washington: Mar 15, 2004. Vol. 76, Iss. 6; p. 1733

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Business Editors/Real Estate Writers. **Business Wire.** New York: Jun 26, 2003. p. 1

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Business Editors/High-Tech Writers. **Business Wire.** New York: Mar 12, 2003. p. 1

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Roger Highfield Science Editor. **The Daily Telegraph.** London (UK): May 13, 2002. p. 10

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JOHN GARRETT. **The Press - Enterprise.** Riverside, Calif.: Mar 24, 2002. p. F.02

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*[Compiled by Gary Macklin * gmacklin@primediabusiness.com].* **Refrigerated Transporter.** Houston: March 2002. p. 33

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PR Newswire. New York: Nov 27, 2001. p. 1

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Kansas City Star. **Chicago Tribune.** Chicago, Ill.: Sep 19, 2001. p. 3

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DIANE STAFFORD. **Kansas City Star.** Kansas City, Mo.: Sep 9, 2001. p. D.1

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Eero Sormunen. **Information Retrieval.** Boston: Sep-Dec 2001. Vol. 4, Iss. 3-4; p. 257

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... Build "trees" of distances between sequences or groups of sequences representing ... To get the E-**value** of a full **database search**, the "m" **value** of the ...
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... (PROT) from the **database** menu. Run the **search** and examine the results. ... file corresponding the **best match** from the most recent **search** (blastx). ...
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Paper: BU CS TR2000-009, Mar., 2000. To appear in Proc. IEEE ...

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International Foundation: **Search** Tips
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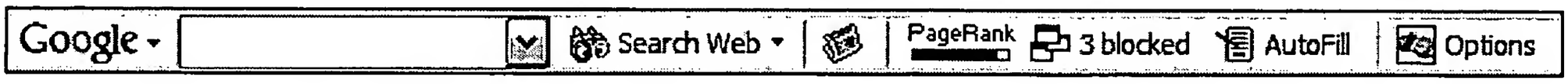

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1 Decoupling partitioning and grouping: Overcoming shortcomings of spatial indexing with bucketing
Hanan Samet
December 2004 **ACM Transactions on Database Systems (TODS)**, Volume 29 Issue 4
Full text available: pdf(446.42 KB) Additional Information: full citation, abstract, references, index terms

The principle of decoupling the partitioning and grouping processes that form the basis of most spatial indexing methods that use tree directories of buckets is explored. The decoupling is designed to overcome the following drawbacks of traditional solutions:(1) multiple postings in disjoint space decomposition methods that lead to balanced trees such as the hB-tree where a node split in the event of node overflow may be such that one of the children of the node that was split becomes a child of ...

Keywords: BV-trees, PK-trees, R-trees, Spatial indexing, decoupling, object hierarchies, space decomposition

2 New techniques for best-match retrieval
Dennis Shasha, Tsong-Li Wang
April 1990 **ACM Transactions on Information Systems (TOIS)**, Volume 8 Issue 2
Full text available: pdf(1.41 MB) Additional Information: full citation, abstract, references, citings, index terms, review

A scheme to answer best-match queries from a file containing a collection of objects is described. A best-match query is to find the objects in the file that are closest (according to some (dis)similarity measure) to a given target. Previous work [5, 331] suggests that one can reduce the number of comparisons required to achieve the desired results using the triangle inequality, starting with a data structure for the file that reflects some precomputed intrafile distances. We gen ...

3 Multilingual generation and summarization of job adverts: the TREE project
Harold Somers, Bill Black, Joakim Nivre, Torbjörn Lager, Annarosa Multari, Luca Gilardoni, Jeremy Ellman, Alex Rogers
March 1997 **Proceedings of the fifth conference on Applied natural language processing**
Full text available: pdf(865.00 KB) Publisher Site Additional Information: full citation, abstract, references

A multilingual Internet-based employment advertisement system is described. Job ads are submitted as e-mail texts, analysed by an example-based pattern matcher and stored in language-independent schemas in an object-oriented database. Users can search the database in their own language and get customized summaries of the job ads. The query engine uses symbolic case-based reasoning techniques, while the generation module integrates canned text, templates, and grammar rules to produce texts and hy ...

4 Index-driven similarity search in metric spaces

Gisli R. Hjaltason, Hanan Samet

December 2003 **ACM Transactions on Database Systems (TODS)**, Volume 28 Issue 4

Full text available: pdf(650.64 KB) Additional Information: full citation, abstract, references, citings, index terms

Similarity search is a very important operation in multimedia databases and other database applications involving complex objects, and involves finding objects in a data set *S* similar to a query object *q*, based on some similarity measure. In this article, we focus on methods for similarity search that make the general assumption that similarity is represented with a distance metric *d*. Existing methods for handling similarity search in this setting typically fall into one of ...

Keywords: Hiearchical metric data structures, distance-based indexing, nearest neighbor queries, range queries, ranking, similarity searching

5 Content-based image retrieval for multimedia databases: Content based sub-image retrieval via hierarchical tree matching

Jie Luo, Mario A. Nascimento

November 2003 **Proceedings of the 1st ACM international workshop on Multimedia databases**

Full text available: pdf(187.28 KB) Additional Information: full citation, abstract, references, citings, index terms

This paper deals with the problem of finding images that *contain a given query image*, the so-called content-based sub-image retrieval. We propose an approach based on a hierarchical tree that encodes the color feature of image tiles which are in turn stored as an index sequence. The index sequences of both candidate images and the query sub-image are then compared in order to rank the database images suitability with respect to the query. In our experiments, using 10,000 images and disk-r ...

Keywords: CBIR, content-based bub-image retrieval, hierarchical tree matching, multi-scale hierachical, partition

6 K-d trees for semidynamic point sets

Jon Louis Bentley

May 1990 **Proceedings of the sixth annual symposium on Computational geometry**

Full text available: pdf(928.78 KB) Additional Information: full citation, abstract, references, citings, index terms

A K-d tree represents a set of N points in K-dimensional space. Operations on a semidynamic tree may delete and undelete points, but may not insert new points. This paper shows that several operations that require &Ogr;(log N) expected time in general K-d trees may be performed in constant expected time in semidynamic trees. These operations include deletion, undeletion, ne ...

7 Late breaking results: posters: Information search: the intersection of visual and

semantic space
Franklin P. Tamborello, Michael D. Byrne
April 2005 **CHI '05 extended abstracts on Human factors in computing systems**

Full text available: pdf(171.10 KB) Additional Information: full citation, abstract, references, index terms

In the context of an information search task, does the visual salience of items interact with information scent? That is, do things like bold headlines or highlighted phrases interact with local semantic cues about the usefulness of distal sources of information? Most research on visual search and highlighting has used stimuli with no semantic content, while studies on information search have assumed equal visual salience of items in the search space. In real information environments like the We ...

Keywords: content creation, content strategy, information architecture, visual design, world wide web and hypermedia

8 Full papers: Tree bitmap: hardware/software IP lookups with incremental updates
Will Eatherton, George Varghese, Zubin Dittia
April 2004 **ACM SIGCOMM Computer Communication Review**, Volume 34 Issue 2

Full text available: pdf(189.39 KB) Additional Information: full citation, abstract, references

Even with the significant focus on IP address lookup in the published literature as well as focus on this market by commercial semiconductor vendors, there is still a challenge for router architects to find solutions that simultaneously meet 3 criteria: scaling in terms of lookup speeds as well as table sizes, the ability to perform high speed updates, and the ability to fit into the overall memory architecture of an Level 3 forwarding engine or packet processor with low systems cost overhead. I ...

9 1 - Regular Articles: Average-optimal single and multiple approximate string matching
Kimmo Fredriksson, Gonzalo Navarro
April 2005 **Journal of Experimental Algorithmics (JEA)**, Volume 9 Issue es

Full text available: pdf(1.77 MB) Additional Information: full citation, abstract, references, index terms

We present a new algorithm for multiple approximate string matching. It is based on reading backwards enough l-grams from text windows so as to prove that no occurrence can contain the part of the window read, and then shifting the window.We show analytically that our algorithm is optimal on average. Hence our first contribution is to fill an important gap in the area, since no average-optimal algorithm existed for multiple approximate string matching.We consider several variants and practical i ...

Keywords: Algorithms, approximate string matching, biological sequences, multiple string matching, optimality

10 A tree algorithm for nearest neighbor searching in document retrieval systems
Caroline M. Eastman, Stephen F. Weiss
May 1978 **ACM SIGIR Forum , Proceedings of the 1st annual international ACM SIGIR conference on Information storage and retrieval**, Volume 13 Issue 1

Full text available: pdf(651.08 KB) Additional Information: full citation, abstract, references, citings, index terms

The problem of finding nearest neighbors to a query in a document collection is a special case of associative retrieval, in which searches are performed using more than one key. A nearest neighbors associative retrieval algorithm, suitable for document retrieval using similarity matching, is described. The basic structure used is a binary tree, at each node a set of keys (concepts) is tested to select the most promising branch. Backtracking to initially rejected branches is allowed and ofte ...

11 An Algorithm for Finding Best Matches in Logarithmic Expected Time
Jerome H. Freidman, Jon Louis Bentley, Raphael Ari Finkel
September 1977 **ACM Transactions on Mathematical Software (TOMS)**, Volume 3 Issue 3
Full text available: pdf(1.15 MB) Additional Information: full citation, references, citings, index terms

12 Animation: Unsupervised colorization of black-and-white cartoons
Daniel Sýkora, Jan Buriánek, Jiří Žára
June 2004 **Proceedings of the 3rd international symposium on Non-photorealistic animation and rendering**
Full text available: pdf(704.37 KB) Additional Information: full citation, abstract, references, index terms

We present a novel *color-by-example* technique which combines image segmentation, patch-based sampling and probabilistic reasoning. This method is able to automate colorization when new color information is applied on the already designed black-and-white cartoon. Our technique is especially suitable for cartoons digitized from classical celluloid films, which were originally produced by a paper or cel based method. In this case, the background is usually a static image and only the dynamic ...

Keywords: color-by-example, image analogies, image processing, image registration, image segmentation, patch-based sampling, probabilistic relaxation

13 Visualisation and comparison of image collections based on self-organised maps
Da Deng, Jianhua Zhang, Martin Purvis
January 2004 **Proceedings of the second workshop on Australasian information security, Data Mining and Web Intelligence, and Software Internationalisation - Volume 32**
Full text available: pdf(396.06 KB) Additional Information: full citation, abstract, references

Self-organised maps (SOM) have been widely used for cluster analysis and visualisation purposes in exploratory data mining. In image retrieval applications, SOMs have been used to visualise high-dimensional feature space and build indexing structures. In this paper, we extend the use of SOMs for profiling and comparison of image collections, and present empirical results obtained in collection visualisation, visual and quantitative comparison of collections, and a prototype system implementation ...

14 Concepts and effectiveness of the cover-coefficient-based clustering methodology for text databases
Fazli Can, Esen A. Ozkarahan
December 1990 **ACM Transactions on Database Systems (TODS)**, Volume 15 Issue 4
Full text available: pdf(2.74 MB) Additional Information: full citation, abstract, references, citings, index terms, review

A new algorithm for document clustering is introduced. The base concept of the algorithm, the cover coefficient (CC) concept, provides a means of estimating the number of clusters within a document database and related indexing and clustering analytically. The CC concept is used also to identify the cluster seeds and to form clusters with these seeds. It is shown that the complexity of the clustering process is very low. The retrieval experiments show that the information-retrieval effectiv ...

Keywords: cluster validity, clustering-indexing relationships, cover coefficient, decoupling coefficient, document retrieval, retrieval effectiveness

15 Multidimensional binary search trees used for associative searching

Jon Louis Bentley

September 1975 **Communications of the ACM**, Volume 18 Issue 9

Full text available: pdf(962.77 KB) Additional Information: full citation, abstract, references, citings, index terms

This paper develops the multidimensional binary search tree (or k-d tree, where k is the dimensionality of the search space) as a data structure for storage of information to be retrieved by associative searches. The k-d tree is defined and examples are given. It is shown to be quite efficient in its storage requirements. A significant advantage of this structure is that a single data structure can handle many types of queries very efficien ...

Keywords: associative retrieval, attribute, binary search trees, binary tree insertion, information retrieval system, intersection queries, key, nearest neighbor queries, partial match queries

16 Research track: A Web page prediction model based on click-stream tree representation of user behavior

Şule Gündüz, M. Tamer Özsu

August 2003 **Proceedings of the ninth ACM SIGKDD international conference on Knowledge discovery and data mining**

Full text available: pdf(138.93 KB) Additional Information: full citation, abstract, references, index terms

Predicting the next request of a user as she visits Web pages has gained importance as Web-based activity increases. Markov models and their variations, or models based on sequence mining have been found well suited for this problem. However, higher order Markov models are extremely complicated due to their large number of states whereas lower order Markov models do not capture the entire behavior of a user in a session. The models that are based on sequential pattern mining only consider the fr ...

Keywords: Web usage mining, graph based clustering, two dimensional sequential model

17 A general solution of the n-dimensional B-tree problem

Michael Freeston

May 1995 **ACM SIGMOD Record , Proceedings of the 1995 ACM SIGMOD international conference on Management of data**, Volume 24 Issue 2

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We present a generic solution to a problem which lies at the heart of the unpredictable worst-case performance characteristics of a wide class of multi-dimensional index designs: those which employ a recursive partitioning of the data space. We then show how this solution can produce modified designs with fully predictable and controllable worst-case characteristics. In particular, we show how the recursive partitioning of an n-dimensional dataspace can be represented in such a way that the char ...

18 Multikey retrieval from K-d trees and QUAD-trees

D. A. Beckley, M. W. Evens, V. K. Raman

May 1985 **ACM SIGMOD Record , Proceedings of the 1985 ACM SIGMOD international conference on Management of data**, Volume 14 Issue 4

Full text available: pdf(1.05 MB) Additional Information: full citation, references, citings, index terms

19 Dynamic vp-tree indexing for *n*-nearest neighbor search given pair-wise distances

Ada Wai-chee Fu, Polly Mei-shuen Chan, Yin-Ling Cheung, Yiu Sang Moon

July 2000 **The VLDB Journal — The International Journal on Very Large Data Bases**, Volume 9 Issue 2

Full text available: pdf(232.09 KB) Additional Information: full citation, abstract, citings, index terms

For some multimedia applications, it has been found that domain objects cannot be represented as feature vectors in a multidimensional space. Instead, pair-wise distances between data objects are the only input. To support content-based retrieval, one approach maps each object to a *k*-dimensional (*k*-d) point and tries to preserve the distances among the points. Then, existing spatial access index methods such as the R-trees and KD-trees can support fast searching on the resulting

Keywords: *Content-based retrieval, Indexing, Nearest neighbor search, Pair-wise distances, Updating*

20 An empirical analysis of techniques for constructing and searching k-dimensional trees

Douglas A. Talbert, Doug Fisher

August 2000 **Proceedings of the sixth ACM SIGKDD international conference on Knowledge discovery and data mining**

Full text available: pdf(108.72 KB) Additional Information: full citation, references, index terms

Keywords: K-dimensional trees, nearest-neighbor search techniques